



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/075,832	02/12/2002	Kern W. Wong	P05085	9012

7590 12/27/2004

Docket Clerk  
P.O. Drawer 800889  
Dallas, TX 75380

EXAMINER

KOBERT, RUSSELL MARC

ART UNIT	PAPER NUMBER
----------	--------------

2829

DATE MAILED: 12/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/075,832	Applicant(s) WONG, KERN W.	
	Examiner Russell M Kobert	Art Unit 2829	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 04 June 2004 and 15 October 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4, 7-10, 13-16 and 19 is/are rejected.
- 7) ☒ Claim(s) 5, 6, 11, 12, 17, 18 and 20 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.
2. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.
3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-4, 7-10, 13-16 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Eager et al (4734872).

Eager et al anticipates an apparatus for socketing and testing integrated circuits comprising:

an air machine (shown in Figure 5 comprising components 22, 24, 26 and 28) that is *operable* to controllably provide a thermally-varying air flow (col 3, ln 34-54); and  
a housing (34 in combination with 30) comprising a universal printed circuit board (30) that is *operable* to receive a device under test (20), a controller (col 10, ln 28-39) that is *operable* to control testing of the received device under test, and a power supply /

Art Unit: 2829

battery (inherent characteristic of a controller such as the personal computer model HP-85 as described supra);

wherein said air machine is associable with said housing to form an at least substantially air-tight chamber (accomplished by the combination of the cap 32 and enclosure 34; col 6, ln 51-60) ensconcing the received device under test as recited in claims 1, 2, 13 and 14.

As to claims 3 and 15 having the printed circuit board circular shaped is considered inherent to Eager et al because Eager et al describes testing various objects including a wafer that is circular shaped) is shown.

As to claims 4 and 16 having I/O connectors (42 and 44) placed circumferentially and symmetrically near the edge of the printed circuit board is considered an inherent characteristic of Eager et al because some form of electrical interconnection would have been required to perform the testing of electronic components such as implied by the first paragraph; see col 1, ln 5-10) .

As to claim 19 having the device under test to be one of a RF integrated circuit and a high-frequency integrated circuit is not considered to further limit the invention as described in claims 1 and 13 (The invention is limited to the apparatus for socketing and testing) and the methods described in claims 7-10 are considered the inherent methods of using the apparatus of Eager et al.

5. The following is a statement of reasons for the indication of allowable subject matter:

Claims 5, 6, 11, 12, 17, 18 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The additional limitation of the printed circuit board having a leadless socket as described in claims 5, 11 and 17 has not been found. It is further noted that the examiner's reasons are understood to be predicated upon consideration of each of the claims as a whole, and not upon any specific elements of the claims.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bui et al (6329831) describes an apparatus and method for testing integrated circuits using a housing comprising a printed circuit board operable to receive a device under test and perform temperature and functional testing of the device under test.

7. A shortened statutory period for response to this action is set to expire three month(s) from the date of this letter. Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Art Unit: 2829

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Russell Kobert whose telephone number is (571) 272-1963. The Examiner's Supervisor, Michael J. Tokar, can be reached at (571) 272-1812. For an automated menu of Tech Center 2800 phone numbers call (571) 272-2800.



Russell M. Kobert  
Patent Examiner  
Group Art Unit 2829  
December 14, 2004



DAVID ZARNEKE  
PRIMARY EXAMINER

2/21/04